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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/973,681	10/09/2001	Kazuyuki Shigeta	CANO:036	5766

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ROSSI & ASSOCIATES
P.O. Box 826
Ashburn, VA 20146-0826

EXAMINER

NGUYEN, KIMNHUNG T

ART UNIT PAPER NUMBER

2674

DATE MAILED: 07/27/2004

6

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/973,681

Applicant(s)

SHIGETA ET AL.

Examiner

Kimnhung Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-31 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-4, 14, 16 and 24 is/are rejected.
- 7) ☒ Claim(s) 5-13, 15, 17-23 and 25-31 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. ____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____. |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____. | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

This Application has been examined. The claims 1-31 are pending. The examination are as following.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-4, 14, 16 and 24 rejected under 35 U.S.C. 102(b) as being anticipated by Geaghan et al. (US 5,790,114).

Regarding claim 1, Geaghan et al. disclose in figures 1-2, an image display apparatus comprising a control signal input device (pen 24) that inputs a control signal; an operation signal output device (external personal computer PC 12) that outputs an operation signal to an external signal source; a memory device that stores display screen information (see application software, see column 3, lines 62-67); and a control signal switching device that selectively switches use of the control signal from said control signal input device (a button region 20) between a control signal for the display screen information stored in said memory device and the operation signal to be outputted from said operation signal output device (see column 3, lines 31-42).

Regarding claim 2, Geaghan et al. disclose, wherein said control signal switching device selectively switches the use of the control signal in a manner responsive to coordinates of a

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position in a display area in which the display screen information stored in said memory device is displayed, the position being indicated by the control signal (see two target areas by X, Y coordinate system, see column 6, lines 50-58).

Regarding claim 3, Geaghan et al. discloses an image signal input device that inputs an image signal from the external signal source (by PC), and an image synthesis device that synthesizes the display screen information stored in said memory device and a signal based on the image signal inputted by said image signal input device.

Regarding claim 4, Geaghan et al. disclose. An image display apparatus according to claim 3, wherein said memory device has a plurality of areas (see figure 5) which comprise at least an area storing information based on the control signal inputted by said control signal input device, an area storing information based on the image signal inputted by said image signal input device, and information based on a signal obtained by synthesis by said image synthesis device.

Regarding claim 14, Geaghan et al. disclose an information processing apparatus using the image display apparatus (see figure 1)

Regarding claim 16, Geaghan et al. disclose an image display method comprising a control signal-inputting step of inputting a control signal (see pen 24) an operation signal-outputting step of outputting an operation signal to an external signal source (see PC 12, figures 1-2) a memory step for storing display screen information; and a control signal-switching step of selectively

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switching use of the control signal inputted at said control signal-inputting step between a control signal for the display screen information stored at said memory step and the operation signal to be outputted at said operation signal-outputting step (see column 3, lines 31-43).

Regarding claim 24, Geaghan et al. disclose in figures 1-2, a computer-readable storage medium storing a program for executing an image display method, the program comprising a control signal input module for inputting a control signal from a control signal input device (see pen 24) an operation signal output module for outputting an operation signal to an external signal source (see PC 12) a memory module for storing display screen information (see software program); and a control signal switching module for selectively switching use of the control signal inputted by said control signal input module between a control signal for the display screen information stored by said memory module and the operation signal to be outputted (see column 3, lines 31-43).

Allowable Subject Matter

3. Claims 5-13, 15, 17-23, 25-31 are allowed.
4. The following is a statement of reasons for allowance: The present invention is directed to an image display apparatus comprising a control signal input device that inputs a control signal; an operation signal output device that outputs an operation signal to an external signal source; a memory device that stores display screen information; and a control signal switching device that selectively switches use of the control signal from said control signal input device between a control signal for the display screen information stored in said memory device and the

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operation signal to be outputted from said operation signal output device. The closest prior art Geaghan et al. show a similar system which comprises comprising a control signal input device that inputs a control signal; an operation signal output device that outputs an operation signal to an external signal source; a memory device that stores display screen information; and a control signal switching device that selectively switches use of the control signal from said control signal input device between a control signal for the display screen information stored in said memory device and the operation signal to be outputted from said operation signal output device. However, they fail to teach a control signal switching device that selectively switches use of the control signal from said control signal input device between a signal for rewriting the display screen information stored in said memory device and the operation signal to be outputted from said operation signal output device, according to an instruction from the control signal input device concerning a display area in which the display screen information stored in said memory device is displayed and a display area in which the image signal processed by said image signal processing device is displayed, said display areas being obtained by synthesis by said image synthesis device as claim 5, or a control signal-switching step of selectively switching use of the control signal inputted at said control signal-inputting step between a signal for rewriting the display screen information stored at said memory step and the operation signal to be outputted at said operation signal-outputting step, according to an instruction at said control signal-inputting step concerning a display area in which the display screen information stored at said memory step is displayed and a display area in which the image signal processed at said image signal-processing step, said display areas being obtained by synthesis by said image synthesis step as claims 17, and 25.

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Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimnhung Nguyen whose telephone number (703) 308-0425.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **RICHARD A HJERPE** can be reached on (703) 305-4709.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D. C. 20231


Or faxed to:

(703) 872-9314 (for Technology Center 2600 only).

Hand-delivery response should be brought to: Crystal Park II, 2121 Crystal Drive, Arlington, VA Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Kimnhung Nguyen
July 21, 2004


7/22/04
RICHARD HJERPE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600